

GIS REGISTRY INFORMATION

SITE NAME:	Ocean Spray Cranberries, Incorporated		
BRRTS # and FID #:	02-30-107682	230009450	
CLOSURE DATE:	09/25/2002		
STREET ADDRESS:	7800 S. 60th Avenue		
CITY:	Kenosha		
SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection):	X=	Y=	

OFF-SOURCE CONTAMINATION (>ES): (if there are more than 2 off-source properties, make a note and attach additional sheet(s))	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
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IF YES, STREET ADDRESS 1:			
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GPS COORDINATES (meters in WTM91 projection):	X=	Y=	
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IF YES, STREET ADDRESS 2:			
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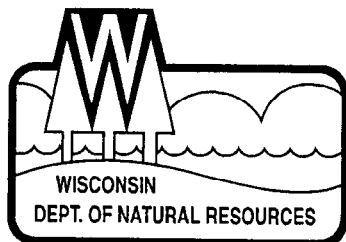
GPS COORDINATES (meters in WTM91 projection):	X=	Y=	
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CONTAMINATION IN RIGHT OF WAY:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
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CONTAMINATED MEDIA: (Groundwater, Soil or Both?)	Soil and Groundwater
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DOCUMENTS NEEDED:

Closure Letter, and any conditional closure letter issued	X	
Copy of most recent deed, including legal description, for all affected properties	X	
Certified survey map or relevant portion of the recorded plat map (if referenced in the legal description) for all affected properties		
County Parcel ID number, if used for county, for all affected properties	X	
Location Map which outlines all properties within contaminated site boundaries in sufficient detail to permit the parcels to be located easily (8.5x14" if paper copy)	X	
Detailed Site Map(s) for all affected properties, showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. (8.5x14", if paper copy)	X	
Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)	X	
Isoconcentration map(s), if available from site investigation (SI) (8.5x14" if paper copy). The isoconcentration map should have flow direction and extent of contamination defined. If not available, include the following 2 types of maps:	X	
Latest groundwater flow/monitoring well location map	X	
Latest extent of contaminant plume map	X	
Geologic cross-sections, if available from SI. (8.5x14" if paper copy)		
RP certified statement that legal descriptions are complete and accurate		
Copies of off-source notification letters (if applicable)		
Letter informing ROW owner of residual contamination (if applicable)		
Copy of (soil or land use) deed restriction(s) or deed notice if any required as a condition of closure.	X	



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Scott McCallum, Governor
Darrell Bazzell, Secretary
Gloria L. McCutcheon, Regional Director

Sturtevant Service Center
9531 Rayne Rd.
Sturtevant, Wisconsin 53177
Telephone 262-884-2343
FAX 262-884-2307

September 25, 2002

Mr. Tariq Akmut
Ocean Spray Cranberries, Inc.
7800 60th Avenue
Kenosha, Wisconsin 53142

Subject: Closure Letter for Ocean Spray Incorporated, 7800 60th Ave, Kenosha, WI.
FID# 230009450, BRRTS# 02-30-107682

Dear Mr. Akmut:

On September 25, 2002 your site as described above was reviewed for closure by the Department of Natural Resources. The Department reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. On July 16, 1999, you were notified that conditional closure was granted to this case.

On September 25, 2002, the Department received correspondence indicating that you have complied with the conditions of closure. Residual petroleum impacts remain in groundwater samples collected from Sump 2. A groundwater use restriction was approved by the Department and has been filed with the Kenosha County Register of Deeds. Based on the correspondence and data provided, it appears that your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code. The Department considers this case closed and no further investigation, remediation or other action is required at this time.

Please be aware that this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety or welfare, or the environment.

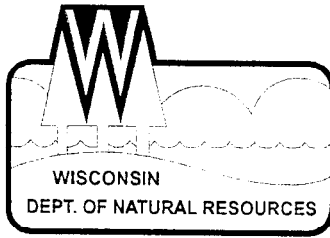
Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the registry. To review the sites on the GIS Registry web page, visit <http://gomapout.dnr.state.wi.us/org/at/et/geo/gwur/index.htm>

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 262-884-2343.

Sincerely,

Rachel A. Sura
Hydrogeologist
Bureau for Remediation & Redevelopment

cc: SER File



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Scott McCallum, Governor
Darrell Bazzell, Secretary
Gloria L. McCutcheon, Regional Director

9531 Rayne Road
Sturtevant, Wisconsin 53177
Telephone 262-884-2301
FAX 262-884-2307

August 5, 2002

FILE REF: BRRTS# 02-30-107682
FID# 230009450

Mr. Mark Taylor
Ocean Spray Cranberries, Inc.
7800 60th Avenue
Kenosha, WI 53142

Subject: Draft Groundwater Use Restriction, Ocean Spray Incorporated,
7800 60th Ave, Kenosha, WI

Dear Mr. Taylor:

The Department of Natural Resources (Department) has received your July 24, 2002 letter indicating that Ocean Spray Cranberries, Inc. (Ocean Spray) intends to file a deed restriction instead of the Geographic Information Systems Registry of Closed Registration Sites (GIS) Registry with the State. As requested in the July 24, 2002 letter, the concentration of benzene was changed from 24.0 parts per billion (ppb) to 25.0 ppb. As part of the Ocean Spray property condition for closure with regards to residual petroleum that remains on site, a groundwater use restriction has been drafted. Generally, the deed states that any placement of a water supply well on the property would require approval by the Department.

Enclosed is the revised groundwater use restriction completed for the above referenced property. This document should be reviewed for any errors or incomplete information. If it meets your approval, please provide the appropriate signatures. If you have changes to the draft deed, please note the changes and return the form to me. Please note, most of the content of the deed is required language, potential changes should be in regards to names, property descriptions and type, extent, and locations of remaining contamination. After the groundwater use restriction has been signed, you need to submit to the Department a copy of the signed groundwater use restriction along with proof of filing with the Kenosha County Register of Deeds.

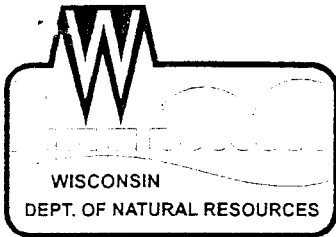
After the signed groundwater use restriction has been received by the Department, as well as proof of filing with the Kenosha County Register of Deeds, the site can be closed. This case will be listed as "active" on the Department's tracking system until the above mentioned conditions are met.

The Department appreciates your efforts to restore the environment. If you have any questions or concerns, please contact me at 262-884-2343.

Sincerely,

Rachel A. Sura
Remediation and Redevelopment Program

Cc: Ms. Tina Reese, Triad Engineering, Inc., 325 East Chicago Street, Milwaukee, WI 53202-5809
Tariq Akmut - Ocean Spray



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Ruthe E. Badger, Regional Director

South Central Region Headquarters
3911 Fish Hatchery Road
Fitchburg, Wisconsin 53711-5397
Telephone 608-275-3266
FAX 608-275-3338
TDD 608-275-3231

September 27, 1999

FILE REF: BRRTS# 02-30-107682
FID# 230009450

Mr. Mark Taylor
Ocean Spray Cranberries,, Inc.
7800 60th Avenue
Kenosha, WI 53142

Subject: Draft Groundwater Use Restriction, Ocean Spray Incorporated,
7800 60th Ave, Kenosha, WI

Dear Mr. Taylor:

As part of the Ocean Spray Inc., property condition for closure with regards to residual petroleum that remains on site, a groundwater use restriction has been drafted. Generally, the deed states that any placement of a water supply well on the property would require approval by the Department of Natural Resources.

Enclosed is the groundwater use restriction completed for the above referenced property. This document should be reviewed for any errors or incomplete information. If it meets your approval, please provide the appropriate signatures. If you have changes to the draft deed, please note the changes and return the form to me. Please note, most of the content of the deed is required language, potential changes should be in regards to names, property descriptions and type, extent, and locations of remaining contamination. After the groundwater use restriction has been signed, you need to submit to the Department a copy of the signed groundwater use restriction along with proof of filing with the Kenosha County Register of Deeds.

After the signed groundwater use restriction has been received by the Department, as well as proof of filing with the Dodge County Register of Deeds, the site can be closed. In addition, the Department is requiring you to properly abandon all groundwater monitoring wells and soil vapor extraction wells and provide the Department with proper documentation of the abandonment. This case will be listed as "active" on the Department's tracking system until the above mentioned conditions are met.

The Department appreciates your efforts to restore the environment. If you have any questions or concerns, please contact me at the telephone number shown below.

Sincerely,

Dino Tsoris, P.G.
Hydrogeologist
Remediation and Redevelopment Program
Telephone (608) 275-3299

Cc: Ms. Tina Reese, Triad Engineering, Inc., 325 East Chicago Street, Milwaukee, WI 53202-5809

Document Number

GROUNDWATER USE RESTRICTION

Declaration of Restrictions

In Re: As described in Attachment A

STATE OF WISCONSIN)

COUNTY OF KENOSHA) ss

WHEREAS, Ocean Spray Cranberries, Inc., a Delaware corporation, is the owner of the above-described property.

WHEREAS, one or more petroleum discharges have occurred on this property. Petroleum contaminated groundwater above ch. NR 140, Wis. Adm. Code, enforcement standards existed on this property at the following location(s) on the following date(s): on December 3, 1997 benzene was detected in the groundwater sampled from Sump 2 at a concentration of 25.0 parts per billion (ppb); naphthalene was also detected at Sump 2 on the same date at a concentration of 52.0 ppb. The location of Sump 2 is shown on Figure 1, attached and made a part of this restriction as attachment A.

WHEREAS, it is the desire and intention of the property owner to impose on the property restrictions which will make it unnecessary to conduct further groundwater or soil remediation activities on the property at the present time.

WHEREAS, natural attenuation has been approved by the Department of Natural Resources to remediate groundwater contamination exceeding ch. NR 140 groundwater standards within the boundaries of this property.

WHEREAS, construction of wells where the water quality does not comply with drinking water standards in ch. NR 809 is restricted by chs. NR 811 and NR 812, Wis. Adm. Code. Special well construction standards or water treatment requirements, or both, or well construction prohibitions may apply.

NOW THEREFORE, the owner hereby declares that all of the property described above is held and shall be held, conveyed or encumbered, leased, rented, used, occupied and improved subject to the following limitation and restrictions:

Anyone who proposes to construct or reconstruct a well on this property is required to contact the Department of Natural Resources' Bureau of Drinking Water and Groundwater, or its successor agency, to determine what specific requirements are applicable, prior to constructing or reconstructing a well on this property. No well may be constructed on this property unless applicable requirements are met.

If construction is proposed on this property that will require dewatering, or if groundwater is to be otherwise extracted from this property, while this groundwater use restriction is in effect, the groundwater shall be sampled and analyzed for contaminants that were previously detected on the

DOCUMENT NUMBER
1205069

RESTRICTION RECORDED
At Kenosha County, Kenosha, WI
Louise L. Principe, Register of Deeds
on 9/25/2002 at 3:14PM
20051972 \$23.00
JANK REGDEED3

Recording Area

Name and Return Address

TARIE ALMUT
OCEAN SPRAY CRANBERRIES, INC.
7500 60TH AVENUE
KENOSHA, WI 53142

03-122-10-151-001

Parcel Identification Number (PIN)

property and any extracted groundwater shall be managed in compliance with applicable statutes and rules.

This restriction is hereby declared to be a covenant running with the land and shall be fully binding upon all persons acquiring the above-described property whether by descent, devise, purchase or otherwise. This restriction benefits and is enforceable by the Wisconsin Department of Natural Resources, its successors or assigns. The Department, its successors or assigns, may initiate proceedings at law or in equity against any person or persons who violate or are proposing to violate this covenant, to prevent the proposed violation or to recover damages for such violation.

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Natural Resources or its successor issue a determination that one or more of the restrictions set forth in this covenant is no longer required. Upon the receipt of such a request, the Wisconsin Department of Natural Resources shall determine whether or not the restrictions contained herein can be extinguished. If the Department determines that the restrictions can be extinguished, an affidavit, attached to a copy of the Department's written determination, may be recorded to give notice that this deed restriction, or portions of this deed restriction, are no longer binding.

By signing this document, TRIPTA SARIN asserts that he/she is duly authorized to sign this document on behalf of Ocean Spray Cranberries, Incorporated.

IN WITNESS WHEREOF, the owner of the property has executed this Declaration of Restrictions, this 20th day of September, 2002.

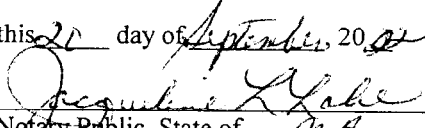
Signature: 

Printed Name: TRIPTA SARIN

Title: VICE PRESIDENT OPERATIONS

Subscribed and sworn to before me

this 20 day of September, 2002


Notary Public, State of MA

My commission December 20, 2002

This document was drafted by the Wisconsin Department of Natural Resources.

[FILENAME :OCNSPR-draftgwuserest7-30-02.doc][revised July 30, 2002]

ATTACHMENT A

ALSO:

Part of the northwest quarter of section 10, town 1 north, range 22 east of the fourth principal meridian, lying and being in the city of Kenosha, in the county of Kenosha, and state of Wisconsin, and being more particularly described as: Commencing at a point that is located by starting at the northeast corner of said quarter section; thence south 1°31'10" east along the east line of said quarter section 1093.58 feet; thence west parallel to the north line of said quarter section 94.32 feet to the point of beginning of the property to be herein described; thence continue west parallel to the north line of said quarter section 335.63 feet to a point that is 544.5 feet east from the center of State Trunk Highway "31"; thence south 10°00'30" west parallel to the center of said highway 954.85 feet; thence east parallel to the north line of said quarter section 526.54 feet to a point that is 94.32 feet west from the east line of said quarter section; thence north 1°31'10" west parallel to the east line of said quarter section 940.91 feet to the point of beginning; containing 9.31 acres, be the same more or less;

TOGETHER WITH a perpetual easement to be shared with the grantors on the following described property, said easement to be used for pedestrian and/or vehicular traffic from Highway "31" to the property of the grantee, said property being described as follows, to wit: Part of the northwest quarter of section 10, town 1 north, range 22 east of the fourth principal meridian, and lying and being in the town of Pleasant Prairie, in the county of Kenosha, and state of Wisconsin, and being more particularly described as : Beginning in the center of State Trunk Highway "31" at a point 751.04 feet north 10°00'30" east from the intersection of the center of said highway with the south line of said quarter section; thence continuing north 10°00'30" east along the center of said highway 30.46 feet; thence east parallel with the north line of said quarter section 544.50 feet; thence south 10°00'30" west parallel to the center of said highway 30.46 feet; thence west parallel with the north line of said quarter section 544.50 feet to the point of beginning. All of said land lying and being in the city of Kenosha and town of Pleasant Prairie, in the county of Kenosha and state of Wisconsin.

Together with all and singular the hereditaments and appurtenances thereunto belonging or in any wise appertaining; and all the estate, right, title, interest, claim or demand whatsoever, of the said party of the first part, either in law or equity, either in possession or expectancy of, in and to the above bargained premises, and their hereditaments and appurtenances.

To Have and to Hold the said premises as above described with the hereditaments and appurtenances, unto the said party of the second part, and to its successors ~~forever~~ and assigns FOREVER.

And the said TRIANGLE LAND DEVELOPMENT CORP., INC., party of the first part, for itself and its successors, does covenant, grant, bargain and agree to and with the said party of the second part, its successors ~~forever~~ assigns, that at the time of the encoding and delivery of these presents it is well seized of the premises above described, as of a good, sure, perfect, absolute and indefeasible estate of inheritance in the law, in fee simple, and that the same are free and clear from all incumbrances whatever.

and that the above bargained premises in the quiet and peaceable possession of the said party of the second part, its successors ~~forever~~ assigns against all and every person or persons lawfully claiming the whole or any part thereof, it will forever WARRANT AND DEFEND.

In Witness Whereof, the said TRIANGLE LAND DEVELOPMENT CORP., INC., party of the first part, has caused these presents to be signed by Andrew R. Brookhouse its President, and countersigned by George P. Connolly its Secretary, at Kenosha Wisconsin, and its corporate seal to be hereunto affixed, this 14th day of August A.D. 19 69.

WITNESSED AND SEALED IN PRESENCE OF

Fred D. Hartley
W.S. Thom

TRIANGLE LAND DEVELOPMENT CORP., INC.
Corporate Seal

Andrew R. Brookhouse
George P. Connolly

State of Wisconsin.

KENOSHA ----- County

THIS INSTRUMENT WAS GRANTED BY
W.S. Thom

Personally appeared on the 14th ----- August ----- 1969
Andrew R. Brookhouse ----- and George P. Connolly -----

of the County of Kenosha, State of Wisconsin, do hereby certify that the within and foregoing instrument is a true and correct copy of the original instrument as the same appears from the records of the County of Kenosha, State of Wisconsin.



Fred P. Hartley
Fred P. Hartley

Kenosha -----

----- is permanent -----

Vol 805 545

No 515690

10

Premises

Warranty Deed

Title Insurance sheet (T.I.) policy code attached
upon receipt of which title to be recorded in County

REGISTER'S OFFICE

State of Wisconsin

Kenosha
County

Received for Record this 14th day of

August

at 11:00 o'clock A.M. and recorded in

Vol 805 of Book 545-45

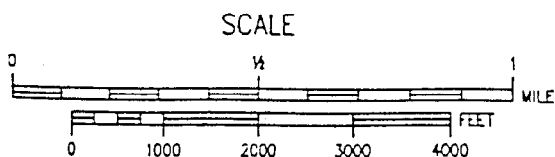
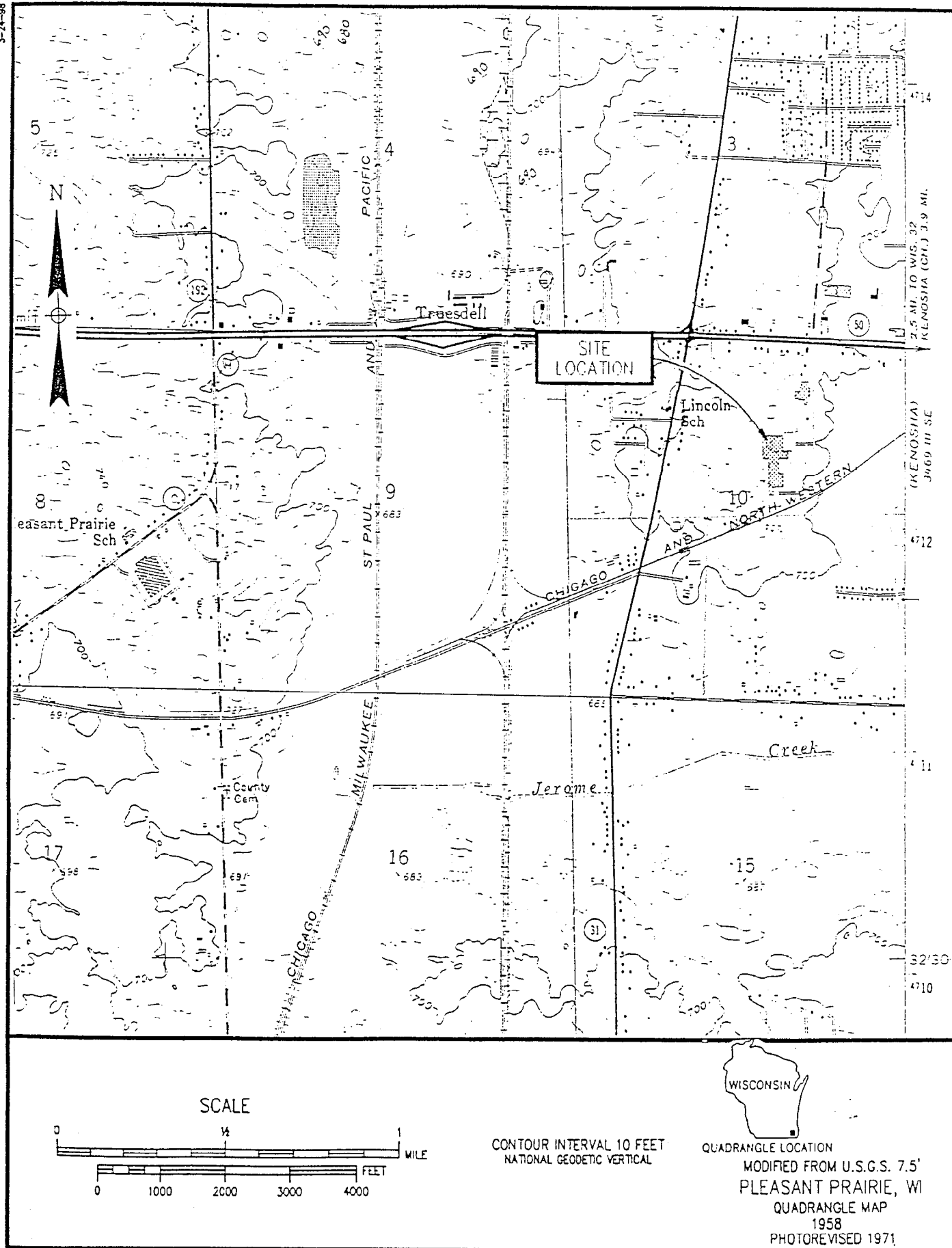
Wilbur R. Larsen

Register of Deeds

Joyce Pehl

County

400



CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL

QUADRANGLE LOCATION
MODIFIED FROM U.S.G.S. 7.5'
PLEASANT PRAIRIE, WI
QUADRANGLE MAP
1958
PHOTOREVISED 1971

TABLE 4
DETECTED CONSTITUENTS IN SITE GROUNDWATER SAMPLES
OCEAN SPRAY CRANBERRIES, INC.
7800 60TH AVENUE
KENOSHA, WI

SAMPLE ID DATE SAMPLED: LAB LAB ID:			MW-1						MW-2					
			8/7/96 NET	3/14/97 SAI	6/17/97 SAI	9/3/97 SAI	12/3/97 SAI	2/24/98 SAI	8/7/96 NET	3/14/97 SAI	6/17/97 SAI	9/3/97 SAI	12/3/97 SAI	2/24/98 SAI
	PAL ⁽¹⁾	ES ⁽²⁾	202320	97-A020067	97-A049203	97-A074110	97-A109499	98-A23294	202318	97-A020068	97-A049204	97-A074111	97-A109500	98-A23295
PVOC (µg/L)														
BENZENE	0.5	5	<0.5	<1.0	<1.0	<1.0	<0.5	NA	<0.5	<1.0	<1.0	<1.0	<0.5	NA
ETHYL BENZENE	140	700	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	NA
METHYL TERT BUTYL ETHER	12	60	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	NA
NAPHTHALENE	8.0	40	<1.0	<5.0	<1.0	<5.0	<1.0	NA	<5.0	<1.0	<5.0	<1.0	<1.0	NA
TOLUENE	68.6	343	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	NA
1,2,4-TRIMETHYLBENZENE	NE	NE	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	NA
1,3,5-TRIMETHYLBENZENE	NE	NE	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	NA
XYLENES (Total)	124	620	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	NA
GRO (mg/L)	NE	NE	NA	<0.1	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.1	<0.1	<0.1	NA
DRO (mg/L)	NE	NE	<0.10 ^H	<0.1	<0.1	<0.1	<0.123	NA	<0.10 ^H	<0.1	<0.1	<0.1	<0.111	NA
TOC (mg/L)	NE	NE	NA	NA	NA	NA	NA	<3.0	NA	NA	NA	NA	NA	<3.0

TABLE 4
DETECTED CONSTITUENTS IN SITE GROUNDWATER SAMPLES
OCEAN SPRAY CRANBERRIES, INC.
7800 60TH AVENUE
KENOSHA, WI

SAMPLE ID DATE SAMPLED LAB LAB ID			MW-3						MW-4					
			8/7/96	3/14/97	6/17/97	9/3/97	12/3/97	2/24/98	8/7/96	3/14/97	6/17/97	9/3/97	12/3/97	2/24/98
			NET	SAI	SAI	SAI	SAI	SAI	NET	SAI	SAI	SAI	SAI	SAI
	PAL ⁽¹⁾	ES ⁽²⁾	202317	97-A020069	97-A049205	97-A074112	97-A109501	98-A23296	202319	97-A020070	97-A049206	97-A074113	97-A109502	98-A23297
PVOC (µg/L)														
BENZENE	0.5	5	<0.5	<1.0	<1.0	<1.0	<0.5	NA	<0.5	<1.0	<1.0	<1.0	<0.5	NA
ETHYL BENZENE	140	700	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	1	<1.0	<1.0	<1.0	NA
METHYL TERT BUTYL ETHER	12	60	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	NA
NAPHTHALENE	8.0	40	<1.0	<5.0	<1.0	<5.0	<1.0	NA	<1.0	<5.0	29.0	<5.0	<1.0	NA
TOLUENE	68.6	343	<1.0	<1.0	<1.0	<1.0	11	NA	<1.0	<1.0	<1.0	<1.0	<1.0	NA
1,2,4-TRIMETHYLBENZENE	NE	NE	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	7	6.0	<1.0	10.0	NA
1,3,5-TRIMETHYLBENZENE	NE	NE	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	2	11.0	<1.0	4.0	NA
XYLENES (Total)	124	620	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	6	<1.0	<1.0	<1.0	NA
GRO (mg/L)	NE	NE	NA	<0.1	<0.1	<0.1	<0.1	NA	NA	0.43	<0.1	<0.1	0.32	NA
DRO (mg/L)	NE	NE	<0.10 ^H	<0.1	<0.1	<0.1	<0.111	NA	0.15 ^H	9.58	16.1	6.97	16.6	NA
TOC (mg/L)	NE	NE	NA	NA	NA	NA	NA	<3.0	NA	NA	NA	NA	NA	35.8

TABLE 4
DETECTED CONSTITUENTS IN SITE GROUNDWATER SAMPLES
OCEAN SPRAY CRANBERRIES, INC.
7800 60TH AVENUE
KENOSHA, WI

SAMPLE ID: DATE SAMPLED: LAB LAB ID:			Sump 1 (RS-1)					Sump 2 (RS-2)				
			6/12/96 NET ⁽³⁾	3/14/97 SAI ⁽⁴⁾	6/17/97 SAI	9/3/97 SAI	12/3/97 SAI	6/12/96 NET	3/14/97 SAI	6/17/97 SAI	9/3/97 SAI	12/3/97 SAI
			PAL ⁽¹⁾	ES ⁽²⁾	189196	97-A020071	97-A049207	97-A074114	97-A109503	189195	97-A020072	97-A049208
PVOC (µg/L)												
BENZENE	0.5	5	<0.50	<1.0	<1.0	<1.0	<0.5	43.0	<1.0	17.0	21.0	25.0
ETHYL BENZENE	140	700	<1.0	<1.0	<1.0	<1.0	<1.0	27.0	2	27.0	42.0	33.0
METHYL TERT BUTYL ETHER	12	60	<1.0	<1.0	<1.0	<1.0	<1.0	6.4	<1.0	<1.0	14	3.0
NAPHTHALENE	8.0	40	NA	<5.0	<1.0	<5.0	<1.0	NA	<5.0	30	120	52.0
TOLUENE	68.6	343	<1.0	<1.0	<1.0	<1.0	<1.0	110	<1.0	<1.0	2	4.0
1,2,4-TRIMETHYLBENZENE	NE	NE	<1.0	<1.0	<1.0	<1.0	<1.0	57	5	80.0	170.0	73.0
1,3,5-TRIMETHYLBENZENE	NE	NE	<1.0	<1.0	<1.0	<1.0	<1.0	32	4	21.0	29.0	14.0
XYLENES (Total)	124	620	<1.0	<1.0	<1.0	<1.0	<1.0	230	7	57.0	82.0	64.0
GRO (mg/L)	NE	NE	NA	<0.1	<0.1	<0.1	<0.1	NA	0.39	0.5	1.43	0.99
DRO (mg/L)	NE	NE	0.43	0.1	0.11	0.9	<0.125	14	6.74	9.51	7.57	3.81
TOC (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

March 4, 1999

Mr. Eric Amadi
Hydrogeologist – Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
9531 Rayne Road, Suite IV
Sturtevant, WI 53212

Dear Eric:

**RE: Natural Attenuation Monitoring Report and Request of Case Closure
Ocean Spray Cranberries
7800 60th Avenue
Kenosha, Wisconsin
BRRS #: 02-30-107682
Triad Engineering Incorporated Project No. W973170-BG002**

Per your letter dated August 31, 1998, the following requested information is being provided and/or clarified in order to expedite the case closure request for the Ocean Spray facility located in Kenosha, Wisconsin. In an effort to clearly address these concerns, each requested item from your letter is listed below, followed by our response. Please note that, per your request, analytical results from a recently installed downgradient monitoring well are included with this response.

Item A - *Provide an estimate of the volume of residual contaminated soils that remain in place at the site.*

The calculated amount of residual contaminated soil remaining in-place that exceed chapter NR 720 generic residual contaminant levels (RCLs) is approximately 175 cubic yards. The most highly impacted soil (approximately 139 cubic yards) was excavated and properly disposed of during removal of the underground product piping. The soil exceeding the generic RCLs is limited primarily to the sand and gravel fill material that is overlain by concrete and asphalt parking areas. The volume of soil was calculated by multiplying the area of impacted soil (Figure 1) by an average depth of 2.5 feet. This calculated volume is considered to be a liberal estimate in that there were only two exceedances of specific chemical constituents (12 µg/kg benzene [RCL = 5.5 µg/kg] at HP-02 and 8900 µg/kg xylenes [RCL = 4100 µg/kg] at HP-14) and one sample that was equal to the RCL of 100 mg/kg for diesel range organics (DRO). It is not likely that all the soil within the calculated volume exceeds the generic RCLs.

As an alternative method to calculating site specific RCLs for direct contact, U.S. EPA generic site screening levels (SSLs) for inhalation were compared to detected



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constituent concentrations in site soil. Both the benzene (12 $\mu\text{g/kg}$) and xylene (8,900 $\mu\text{g/kg}$) exceedances are considerably less than the SSL for inhalation of 800 $\mu\text{g/kg}$ and 410,000 $\mu\text{g/kg}$, respectively. We understand that the use of SSLs as alternative site-specific RCLs in accordance with NR 720.19 (b) has been approved by WDNR in many cases (Sally Kefer, WDNR, personal communication). Application of the SSLs as site-specific RCLs for this site would result in zero volume of residual contaminated soil remaining in-place.

Demonstration of the effectiveness of natural attenuation as a remedy for groundwater contamination can also be used as a soil performance standard for the groundwater pathway (WDNR PUBL RR-528-97, pg. 10). The effectiveness of natural attenuation for groundwater remediation for the Ocean Spray site was documented in the "*Natural Attenuation Monitoring Report and Request for Site Closure*" submitted to the WDNR in April 1998.

Item B – *Delineate the property boundaries and define the plume downgradient.*

Figures 1 and 2 depict the Ocean Spray facility property boundaries and the area of impacted soil and groundwater. NR 140 groundwater enforcement standards (ESs) were exceeded at 3 hydraulic probe locations for benzene (HP-01 [27 $\mu\text{g/l}$] and HP-07 [10 $\mu\text{g/l}$]) and naphthalene (HP-01 [140 $\mu\text{g/l}$], HP-07 [70 $\mu\text{g/l}$] and HP-09 [130 $\mu\text{g/l}$]). Preventive action limits were exceeded at 8 hydraulic probe locations (HP-01, HP-03, HP-05, HP-06, HP-13, HP-17, HP-19 and HP-20) for benzene (HP-01 and HP-20), methyl tert butyl ether (HP-06), naphthalene (HP-05, HP-13, HP-17, HP-19 and HP-20) and xylene (HP-01). In addition, sump RS-2 had a benzene ES and xylene PAL exceedance. No groundwater standards were exceeded at the monitoring well locations, which are sealed from the sand and gravel fill with bentonite. It appears that impacted groundwater is limited primarily to water within the sand and gravel fill that is overlain by concrete and asphalt driveways and parking areas.

Regionally the Ocean Spray facility is located in area of north/south-trending glacial end moraines characterized by surficial glacial deposits consisting of primarily low permeability silty and clayey glacial till. The glacial deposits at the site are estimated to be approximately 160 feet thick and do not appear to contain significant sand and gravel layers. Native soil at the site consists of low permeability hard gray clay that extends to the maximum depth penetrated of 14 feet. The hydraulic conductivity value (geometric mean) calculated for the native soil at the site based on test conducted on the four on-site monitoring wells was 1.68E-07 cm/sec.

Item C - *Verify that groundwater contamination above NR 140 PAL standards is not migrating and will not migrate beyond the property boundaries.*

Groundwater flow in the investigated area of the site appears to be to the southeast, at an average hydraulic gradient of 0.026 feet per foot (ft/ft). The calculated advective groundwater velocity for the site was 0.1 feet per year (ft/yr). Based on the calculated advective groundwater velocity, and the distance from the nearest downgradient



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property boundary (approximately 650 feet southeast of the source area), and results of the natural attenuation monitoring data, impacted groundwater is not expected to migrate beyond the boundaries of the Ocean Spray property.

As was requested in our meeting on October 15, 1998, a downgradient monitoring well (MW-5) was installed on January 19, 1999 (Figure 1). MW-5 was sealed off through the sand and gravel fill material. The well was then developed and sampled in accordance with NR 141, Wisconsin Administrative Code (WAC) and the *Groundwater Sampling Field Manual (WDNR, 1996)*. The soil boring log (Form 4400-122), monitoring well construction form (Form 4400-113A) and well development form are attached.

A groundwater sample was collected on January 27, 1999, and submitted to Specialized Assays, Inc. (SAI) for analysis of petroleum volatile organic compounds (PVOCs) plus naphthalene (SW846-8021B), diesel range organics (DRO; method WDNR MOD), and gasoline range organics (GRO; method WDNR MOD).

The parameters analyzed were not detected except for DRO, which was detected at 0.15 milligrams per liter (mg/L). The laboratory analytical report is attached.

Item D - Waste Manifests

Please find attached special waste manifest disposal tickets obtained from Waste Management documenting that 208.32 tons of contaminated soil was transported to the Pheasant Run RDF, Bristol, Wisconsin, from the Ocean Spray facility for proper disposal.

Based on the information provided, including analytical results from the recently installed downgradient monitoring well (MW-5), we again request closure of the site in accordance with our April 1998 request for closure.

Please call us if you have any questions or comments.

Sincerely,

TRIAD ENGINEERING INCORPORATED

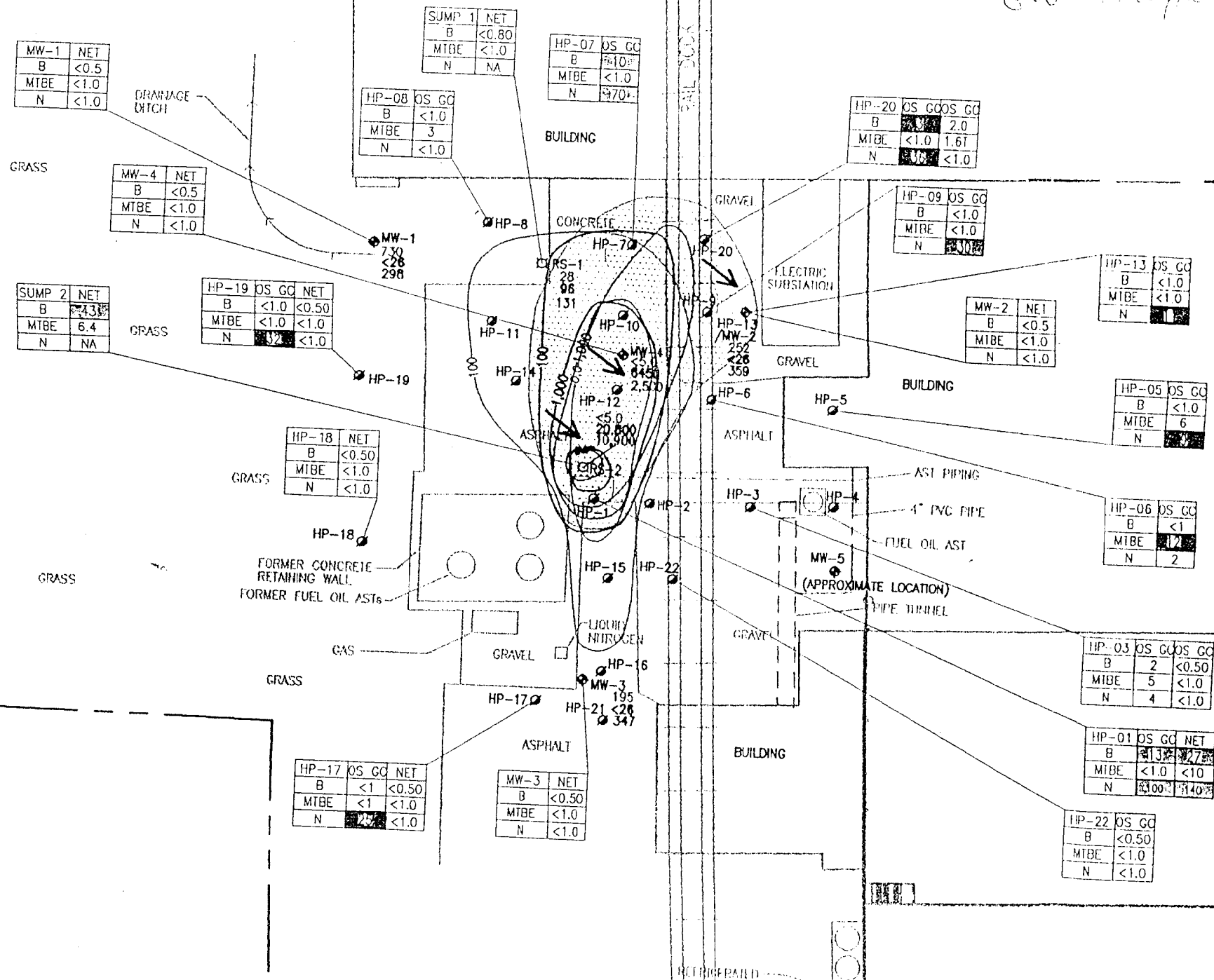
Dennis Lawton, P.G.
Senior Hydrogeologist

TRIAD ENGINEERING INCORPORATED

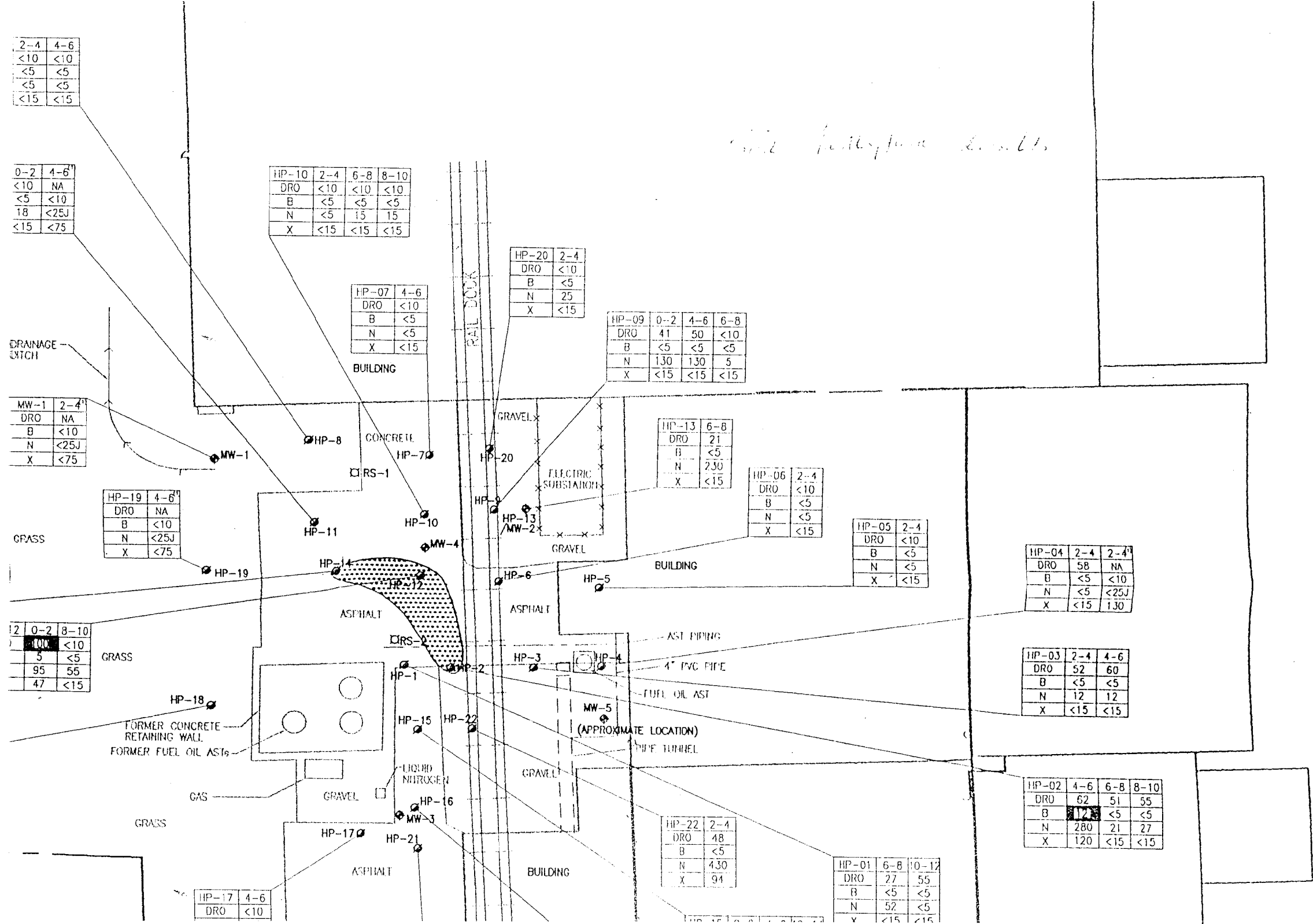
Tina A. Reese
Hydrogeologist

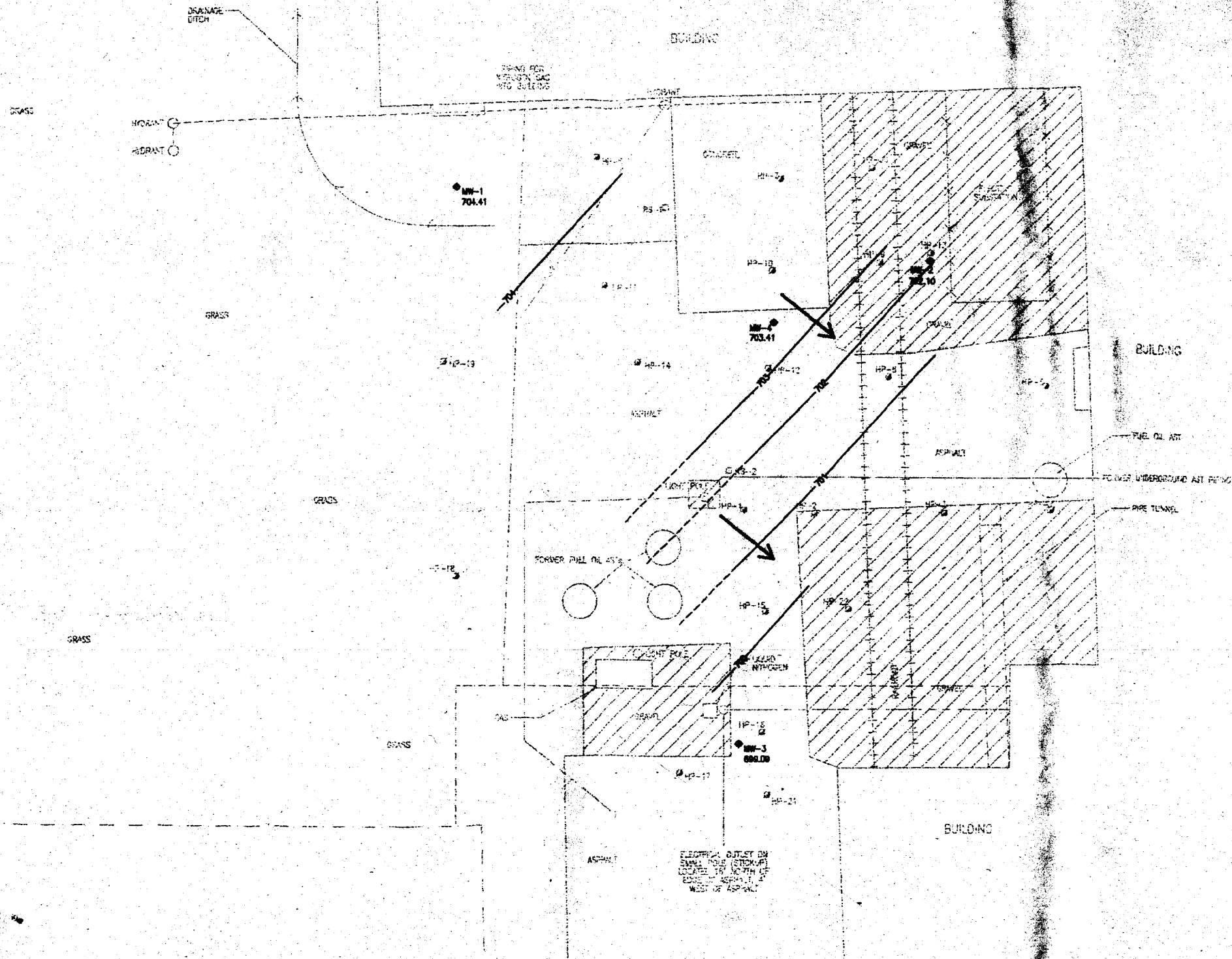
c: Mark Taylor/Ocean Spray
Robert Mullennix/Ocean Spray

GW Analytical Results



Site Inventory Results





12/2/97

LEGEND

- MW-1 704.58 MONITORING WELL / GROUNDWATER ELEVATION (IN FEET ABOVE MEAN SEA LEVEL)
- RS-1 RECOVERY SUMP
- HP-1 HYDRAULIC PROBE BORING
- FENCE LINE
- GAS LINE
- ELECTRICAL LINE
- WATER LINE
- GRAVEL AREA
- 700 GROUNDWATER CONTOUR (FT MSL; DASHED WHERE INFERRED)
- INFERRED GROUNDWATER FLOW DIRECTION